BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Providing andlaying UGD Line in ward No.07 Byatarayanapura, Kodigehalli Sub division.

Estimate cost: 30.00 lakhs

G. mahendra

Pre-measurement

007-18-000124

1st & final

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency		**M/S Sree Manojava Enterprises**			

Name of work: Providing andlaying UGD Line in ward No.07 Byatarayanapura, Kodigehalli Sub division.
Estimated Cost:-30.00 Lakhs

Sl NO	**Description of work**			**No**	**L**	**B**	**D**	**QTY**	**Remarks**
1	Cutting road surface for pipeline treches and disposing of the excavated stuff as directed inculding barricading , danger lighting etc, in following classifications. (2) Cutting Asphalted road BWSSB SR 2017-18 , Page No-56, Slno-16.2 Code SOR 17-18, . A 105B Asphalt Road.								
	Manimariyappa road to Super market-Coffe baord layout								
	0-30	MH1	MH2	1	30.00	1.20	0.15	5.40	
	30-56.70			1	26.70	1.20	0.15	4.81	
	0-36	MH2	MH3	1	36.00	1.20	0.15	6.48	
	0-30	MH3	MH4	1	30.00	1.20	0.15	5.40	
	0-30	MH4	MH5	1	30.00	1.20	0.15	5.40	
	30-42			1	12.00	1.20	0.15	2.16	
	0-30	MH5	MH6	1	30.00	1.20	0.15	5.40	
	30-42.5			1	12.50	1.20	0.15	2.25	
	0-30	**MH6**	MH7	1	30.00	1.20	0.15	5.40	
	30-43.5			1	13.50	1.20	0.15	2.43	
	0-30	MH7	MH8	1	30.00	1.20	0.15	5.40	
	30-42			1	12.00	1.20	0.15	2.16	
	0-30	MH8	MH9	1	30.00	1.20	0.15	5.40	
	30-13.50			1	13.50	1.20	0.15	2.43	
	0-30	MH9	MH10	1	30.00	1.20	0.15	5.40	
	30-41			1	11.00	1.20	0.15	1.98	
	0-30	MH10	MH11	1	30.00	1.20	0.15	5.40	
	30-19			1	19.00	1.20	0.15	3.42	
	0-30	MH11	MH12	1	30.00	1.20	0.15	5.40	
	30-47			1	17.00	1.20	0.15	3.06	
	0-30	MH12	MH13	1	30.00	1.20	0.15	5.40	
	30-18			1	18.00	1.20	0.15	3.24	
	0-30	MH13	MH14	1	30.00	1.20	0.15	5.40	
	30-55.5			1	25.50	1.20	0.15	4.59	
	0-30	MH14	MH15	1	30.00	1.20	0.15	5.40	
	30-49			1	19.00	1.20	0.15	3.42	
								112.63	
	Deductions for manholes			15	2.18	0.15		4.91	
							A	**107.72**	

NDD AE(N-3) 13/1/2020

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 56[illegible]

	Talakaveri layout								
	0-30			1	30	0.9	0.15	4.05	
	30-60			1	30	0.9	0.15	4.05	
	60-90			1	30	0.9	0.15	4.05	
	90-120			1	30	0.9	0.15	4.05	
	120-150			1	30	0.9	0.15	4.05	
							B	20.25	
							Total	127.97	
							ltd to	112.74	
2	Earth work excavation for the pipeline trenches of required width by mechanical/&manual means inculding dressing sides ramming of bottoms,providing barricading,danger lighting shoring strutiing,Dewatering ,etcIN aLL KINDS of SOIL MIXED WITH BOULDERS of 30 cms size etc for Pipes of all dia for depth upto 2.0 m in all types of soils Note; If any shoring and strtting will be paid seperately for: (BWSSB.S.R 2017-18)Page no-51, Sl No-8.1 Code SOR 17-18 A050A Depth upto 2.0m in all types of soil. Note : IF any shoring and shrutting ,will be paid separately.								
	Manimariyappa road to Super market-Coffe baord layout								
	0-30	MH1	MH2	1	30	1.2	2.1	75.60	
	30-56.70			1	26.7	1.2	2.1	67.28	
	0-36	MH2	MH3	1	36	1.2	2	86.40	
	0-30	MH3	MH4	1	30	1.2	2	72.00	
	0-30	MH4	MH5	1	30	1.2	2	72.00	
	30-42			1	12	1.2	2	28.80	
	0-30	MH5	MH6	1	30	1.2	2	72.00	
	30-42.5			1	12.5	1.2	2	30.00	
	0-30	MH6	MH7	1	30	1.2	2	72.00	
	30-43.5			1	13.5	1.2	2	32.40	
	0-30	MH7	MH8	1	30	1.2	2	72.00	
	30-42			1	12	1.2	2	28.80	
	0-30	MH8	MH9	1	30	1.2	2	72.00	
	30-13.50			1	13.5	1.2	2	32.40	
	0-30	MH9	MH10	1	30	1.2	2	72.00	
	30-41			1	11	1.2	2	26.40	
	0-30	MH10	MH11	1	30	1.2	2	72.00	
	30-19			1	19	1.2	2	45.60	
	0-30	MH11	MH12	1	30	1.2	2	72.00	
	30-47			1	17	1.2	2	40.80	
	0-30	MH12	MH13	1	30	1.2	2	72.00	
	30-18			1	18	1.2	2	43.20	
	0-30	MH13	MH14	1	30	1.2	2	72.00	
	30-55.5			1	25.5	1.2	2	61.20	
	0-30	MH14	MH15	1	30	1.2	2	72.00	
	30-49			1	19	1.2	2	45.60	
							A	1508.48	

Assistant Engineer

Assistant Executive E

Assistant Executive
Kodigenalli Sub Di
Bruhat Bangalore Mahana
Bangalore - 560

	Deductions for manholes			15	2.18	1.2	0.15	(-)5.89	
	0								
	Talakaveri layout								
	0-30			1	30	0.9	1.95	52.65	
	30-60			1	30	0.9	1.50	40.50	
	60-90			1	30	0.9	1.50	40.50	
	90-120			1	30	0.9	1.50	40.50	
	120-150			1	30	0.9	1.50	40.50	
						B		214.65	
								1717.25	
						qty ltd to		1470.32	
3	Depth 2.0m to 4.0m in all types of								
	0-30	MH1	MH2	1	30	1.2	0.5	18.00	
	30-56.70			1	26.7	1.2	0.5	16.02	
	0-36	MH2	MH3	1	36	1.2	0.4	17.28	
	0-30	MH3	MH4	1	30	1.2	0.75	27.00	
	0-30	MH4	MH5	1	30	1.2	0.9	32.40	
	30-42			1	12	1.2	0.9	12.96	
	0-30	MH5	MH6	1	30	1.2	0.75	27.00	
	30-42.5			1	12.5	1.2	0.75	11.25	
	0-30	MH6	MH7	1	30	1.2	0.7	25.20	
	30-43.5			1	13.5	1.2	0.7	11.34	
	0-30	MH7	MH8	1	30	1.2	0.85	30.60	
	30-42			1	12	1.2	0.85	12.24	
	0-30	MH8	MH9	1	30	1.2	1.05	37.80	
	30-13.50			1	13.5	1.2	1.05	17.01	
	0-30	MH9	MH10	1	30	1.2	1.1	39.60	
	30-41			1	11	1.2	1.1	14.52	
	0-30	MH10	MH11	1	30	1.2	1.1	39.60	
	30-19			1	19	1.2	1.1	25.08	
	0-30	MH11	MH12	1	30	1.2	1.10	39.60	
	30-47			1	17	1.2	1.10	22.44	
	0-30	MH12	MH13	1	30	1.2	1.10	39.60	
	30-18			1	18	1.2	1.10	23.76	
	0-30	MH13	MH14	1	30	1.2	1.10	39.60	
	30-55.5			1	25.5	1.2	1.10	33.66	
	0-30	MH14	MH15	1	30	1.2	0.35	12.60	
	30-49			1	19	1.2	0.35	7.98	
						A		634.14	
	Deductions for manholes			15	2.18	1.2	0.84	32.96	
								601.18	

Asst. Ex. Engineer

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

	Talakaveri layout								
	0-30			1	30	0.35	0.35	3.68	
	30-60			1	30	0.6	0.35	6.30	
	60-90			1	30	0.7	0.35	7.35	
	90-120			1	30	0.6	0.35	6.30	
	120-150			1	30	0.6	0.35	6.30	
						B		23.63	29.93
								624.80	631.41
						Qty Ltd to		451.11	cum
4	Excavating for pipe line trenches of required width by mechanical/& mannualmeansinculdingdresssingsides,rammingofbottoms,providing barricading,dangerlighting,shoring,strutting,dewatering,etcIN hard rock by chiselling to proper slope etc for pipes of all for depth 2.0m BWSSB SR 2017-18 , Page No-56, Slno-16.2 Code SOR 17-18, . A 1068A .								
	0-30	MH1	MH2	1	30	0.6	1	18.00	
	30-56.70			1	30	0.6	1	18.00	
	0-36	MH2	MH3	1	36	0.6	1	21.60	
	0-30	MH3	MH4	1	30	0.6	1	18.00	
	0-30	MH4	MH5	1	30	0.6	1	18.00	
	30-42			1	12	0.6	1	7.20	
	0-30	MH5	MH6	1	30	0.6	1	18.00	
	30-42.5			1	12.5	0.6	1	7.50	
	0-30	MH6	MH7	1	30	0.6	1	18.00	
	30-43.5			1	13.5	0.6	1	8.10	
	0-30	MH7	MH8	1	30	0.6	1	18.00	
	30-42			1	12	0.6	1	7.20	
	0-30	MH8	MH9	1	30	0.6	1	18.00	
	30-13.50			1	13.5	0.6	1	8.10	
	0-30	MH9	MH10	1	30	0.6	1	18.00	
	30-41			1	11	0.6	1	6.60	
	0-30	MH10	MH11	1	30	0.6	1	18.00	
	30-19			1	19	0.6	1	11.40	
	0-30	MH11	MH12	1	30	0.6	1	18.00	
	30-47			1	17	0.6	1	10.20	
	0-30	MH12	MH13	1	30	0.6	1	18.00	
	30-18			1	18	0.6	1	10.80	
	0-30	MH13	MH14	1	30	0.6	1	18.00	
	30-55.5			1	25.5	0.6	1	15.30	
	0-30	MH14	MH15	1	30	0.6	1	18.00	
	30-49			1	19	0.6	1	11.40	
						A		377.40	
	Deductions for manholes			15	2.18	1.2	0.15	5.89	
								371.51	

Assistant Engineer

Assistant Executive

Assistant Executive
Kodigehalli Sub Di
Bruhat Bangalore Mahan
Bangalore - 560

	Talakaveri layout								
	0-30			1	30	0.3	0.65	5.85	
	30-60			1	30	0.3	0.9	8.10	
	60-90			1	30	0.3	0.9	8.10	
	90-120			1	30	0.3	0.9	8.10	
	120-150			1	30	0.3	0.9	8.10	
							B	38.25	
								409.76	
							Total	367.58	

5	Supplying S &S RCC SPUN /VIBRATED CAST PIPES (REINFORCED) Pipes NP-3 Class confirming to IS 458-1988 with latest amendments using ordinary portland cement ,for sanitary works and conveting to work site ,rolling and lowerirng into trenches, laying true to line and level inculdsing loading and unloading at both destinations and jointing of pipes and specials inculding cost of specials perfect linking of joints with jack to correct postion inculding cost of jointing materials ie rubber rings condfirmeing to IS :5382 for S & S RCC pipes ,with all leads and lifts as diredted and giving necessary hydralic test as per ISS to the required pressure and commissioning etc.Complte (contractor will make his own arrangemnents for procuing water for testing) .Before the execution of the work.the contractor shall carry out the the survey and will be paid extra for the same as per seperate item.:BWSSB SR 2017-18 , Page No-158, Slno-4.4 Code SOR 17-18, . T050D 250mm dia pipes.								
	0-30	MH1	MH2	1	30			30.00	
	30-56.70	0	0	1	30			30.00	
	0-36	MH2	MH3	1	36			36.00	
	0-30	MH3	MH4	1	30			30.00	
	0-30	MH4	MH5	1	30			30.00	
	30-42			1	12			12.00	
	0-30	MH5	MH6	1	30			30.00	
	30-42.5			1	12.5			12.50	
	0-30	MH6	MH7	1	30			30.00	
	30-43.5			1	13.5			13.50	
	0-30	MH7	MH8	1	30			30.00	
	30-42			1	12			12.00	
	0-30	MH8	MH9	1	30			30.00	
	30-13.50			1	13.5			13.50	
	0-30	MH9	MH10	1	30			30.00	
	30-41			1	11			11.00	
	0-30	MH10	MH11	1	30			30.00	
	30-19			1	19			19.00	
	0-30	MH11	MH12	1	30			30.00	
	30-47			1	17			17.00	
	0-30	MH12	MH13	1	30			30.00	
	30-18			1	18			18.00	524.50

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

	0-30	MH13	MH14	1	30			30.00	
	30-55.5			1	25.5			25.50	
	0-30	MH14	MH15	1	30			30.00	
	30-49			1	19			19.00	104.50
							A	**629.00**	
	Deductions for manholes			15	2.18			32.70	
								596.30	
	Talakaveri layout								
	0-30			1	30			30.00	
	30-60			1	30			30.00	
	60-90			1	30			30.00	
				1	30			30.00	
							B	**120.00**	
							Total 716.30	**715.30**	NDP AE(Civil) 19/3/2020
6	Dismantling the damaged or collapsed manhole of 1.2m dia conical in shape and reconstructiing the same for same for the same dimensions, with machine made wire cut brick in CM1:4 with ordinary portland cement etc.as per design and specifications.The existing ring cover and CC beding to be used. BWSSB SR 2017-18 page no-180 Sl no -117 Code SR 17-18 T440A For manhole of 1.2m dia and 1.m depth.0.5m Depth on the line EMH 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,.								
	Mandimariyappa road to super market- Coffe board							**20.00**	
	Talakaveri layot							**6.00**	
							Nos	**26.00**	NDP AE(Civil) 26/3/2020
7	Supply and fixing of SFRC manhole rings and cover (Heavy Duty) made as per IS to suit existing damaged manholes after removing the debries from indide and out side the existing manhole etc.with all lead and lifts BWSSB SR 2017-18 page no-175 Sl no -111 Code SR 17-18 T380A For manhole of 1.2m dia and 1.m depth.								
	Mandimariyappa road to super market- Coffe board							**15.00**	
							Nos	**15.00**	NDP AE(Civil) 09/6/2020

Assistant Engineer

Assistant Executive Er

8	REFILLING OF EARTH around pipelines, in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering all lead and lift including cost of all labour including consolidation by mechanical means approved by Engineer inclarge, when earth is at suitable moisture content with desired field density upto 95% maximum dry density (modified heavy proctor test) for restoration of roads without settlement including HOM of machineries complete. (The contractor shall take care while consolidating the earth, so that pipes laid are not damaged due to mechanical compaction and shall restore the damaged pipes at his own cost, incase of damage).Approved earth available nearby, lead upto 100M and lift upto 1.5M. Note In exceptional cases, earh may be obtained from barrow pit with extra lead ,duly obtaing approval from the Chief Engineer .BWSSB SR 2017-18 page no-56 Sl no -14.1, Code SR 17-18 ,A095A.								
				Qty Vide Item No 2A				1470.32	
				Qty Vide Item No 2B				451.11	
						No 4	+367.58	~~1921.43~~	
	Deductions							2288.58	2289.01
			3.14	0.3	0.3	716		50.59	= 2237.99
							Ltd to	1870.84	NDP DE(Land) 20/10/20
9	Provide bedding using approved stone dust / quarry dust of size notexceeding 5.6 mm for the pipe lines trenches including watering andconsolidation to95% proctor density etc. complete with all lead andlifts as per specifications and as directed by the Engineer in chargeetc and afterobtaining the approval of the Chief Engineer..BWSSB SR 2017-18 page no-56 Sl no -18. Code SR 17-18 A108A								
				30	1.2	0.1		3.60	NDP AE(Civil)
10	Disposal off the excess excavated earth of all types by vehicle inculding loading ,unloading with all lead lifts,labour,HOM of machineries etc.for Distance upto 4 to 5 KM :.BWSSB SR 2017-18 page no-57 Sl no -20.1. Code SR 17-18 ,A115A.								
								418.17	NDP DE

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

11	Wet mix macadam KSRRB M-400-17 Providing,laying spreading and compacting graded stones aggregates to wet mix macadam spections including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site ,laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory complete as per specifications MORTH Specfications No-406 (BWSSB SR 14-15 P-292-I-20.18) qty same as item no -1								
	Manimariyappa road to Super market-Coffe baord layout								
	0-30	MH1	MH2	1	30	1.2	0.15	5.40	
	30-56.70			1	26.7	1.2	0.15	4.81	
	0-36	MH2	MH3	1	36	1.2	0.15	6.48	
	0-30	MH3	MH4	1	30	1.2	0.15	5.40	
	0-30	MH4	MH5	1	30	1.2	0.15	5.40	
	30-42			1	12	1.2	0.15	2.16	
	0-30	MH5	MH6	1	30	1.2	0.15	5.40	
	30-42.5			1	12.5	1.2	0.15	2.25	
	0-30	MH6	MH7	1	30	1.2	0.15	5.40	
	30-43.5			1	13.5	1.2	0.15	2.43	
	0-30	MH7	MH8	1	30	1.2	0.15	5.40	
	30-42			1	12	1.2	0.15	2.16	
	0-30	MH8	MH9	1	30	1.2	0.15	5.40	
	30-13.50			1	13.5	1.2	0.15	2.43	
	0-30	MH9	MH10	1	30	1.2	0.15	5.40	
	30-41			1	11	1.2	0.15	1.98	
	0-30	MH10	MH11	1	30	1.2	0.15	5.40	
	30-19			1	19	1.2	0.15	3.42	
	0-30	MH11	MH12	1	30	1.2	0.15	5.40	
	30-47			1	17	1.2	0.15	3.06	
	0-30	MH12	MH13	1	30	1.2	0.15	5.40	
	30-18			1	18	1.2	0.15	3.24	
	0-30	MH13	MH14	1	30	1.2	0.15	5.40	
	30-55.5			1	25.5	1.2	0.15	4.59	
	0-30	MH14	MH15	1	30	1.2	0.15	5.40	
	30-49			1	19	1.2	0.15	3.42	
								112.63	
	Deductions for manholes			15	2.18	0.15		4.91	
								107.72	
	Assistant Engineer			Assistant Executive		Executive Engineer			
	Ward No.07			Kodigehalli Sub division			Byatarayanapura Division		

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 56

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Providing andlaying UGD Line in ward No.07 Byatarayanapura, Kodigehalli Sub division.

Estimate cost: 30.00 lakhs

G. mahendra

Bill Abstract.

007-18-000124.

1st & Final

BRUHAT BANGALORE MAHANAGARA PALIKE					
KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA					
	Name of work	Providing and laying UGD line in ward No.07 Byatarayanapura, Kodigehalli sub division.			
	Job code	007-18-000124			
	P-code	P1802			
	Agency	M/S.Sree Manojava Enterprises			
	First and final bill				
Sl NO	Description	unit	Qty	RATE	AMOUNT
1	Cutting road surface for pipeline treches and disposing of the excavated stuff as directed inculding barricading , danger lighting etc, in following classifications. (2) Cutting Asphalted road				
	Name of work	cum			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		112.74		
	Previous Qty		0.00		
	Total Qty		112.74		
	BOQ Qty		112.74		
	Qty for payment		112.74	818.00	92221.32
2	Earth work excavation for the pipeline trenches of required width by mechanical/&manual means inculding dressing sides ramming of bottoms,providing barricading,danger lighting shoring Srutiing, Dewatering ,etcIN aLL KINDS of SOIL MIXED WITH BOULDERS of 30 cms size etc for Pipes of all dia for depth upto 2.0 m in all types of soils Note; If any shoring and strtting will be paid seperately for: (BWSSB.S.R 2017-18)Page no-51, Sl No-8.1 Code SOR 17-18 A050A Depth upto 2.0m in all types of soil. Note : IF any shoring and shrutting ,will be paid separately.(BWSSB SR 2017-18 pg .no:51, Si.no:1.1, item code-A050A) 0.00 to 2.00 m				
	Name of work	cum			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		1470.32		
	Previous Qty		0.00		
	Total Qty		1470.32		
	BOQ Qty		1470.32		
	Qty for payment		1470.32	153.00	224958.96

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

5	Supplying S &S RCC SPUN /VIBRATED CAST PIPES (REINFORCED) Pipes NP-3 Class confirming to IS 458-1988 with latest amendments using ordinary portland cement ,for sanitary works and conveting to work site ,rolling and lowerirng into trenches, laying true to line and level inculdsing loading and unloading at both destinations and jointing of pipes and specials inculding cost of specials perfect linking of joints with jack to correct postion inculding cost of jointing materials ie rubber rings condfirmeing to IS :5382 for S & S RCC pipes ,with all leads and lifts as diredted and giving necessary hydralic test as per ISS to the required pressure and commissioning etc.Complte (contractor will make his own arrangemnents for procuing water for testing) .Before the execution of the work.the contractor shall carry out the the survey and will be paid extra for the same as per seperate item.:BWSSB SR 2017-18 , Page No-158, Slno-4.4 Code SOR 17-18, . T050D				
	Name of work	rmt			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		715.30		
	Previous Qty		0.00		
	Total Qty		715.30		
	BOQ Qty		716.00		
	Qty for payment		715.30	1518.00	1085825.40
6	Dismantling the damaged or collapsed manhole of 1.2m dia conical in shape and reconstructiing the same for same for the same dimensions, with machine made wire cut brick in CM1:4 with ordinary portland cement etc.as per design and specifications.The existing ring cover and CC beding to be used				
	Name of work	no			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		26.00		
	Previous Qty		0.00		
	Total Qty		26.00		
	BOQ Qty		26.00		
	Qty for payment		26.00	11614.00	301964.00

92928.66

470502.40

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

7	Supply and fixing of SFRC manhole rings and cover (Heavy Duty) made as per IS to suit existing damaged manholes after removing the debries from indide and out side the existing manhole etc.with all lead and lifts				
	Name of work	no			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		15.00		
	Previous Qty		0.00		
	Total Qty		15.00		
	BOQ Qty		17.00		
	Qty for payment		15.00	1036.00	15540.00
8	REFILLING OF EARTH around pipelines, in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering all lead and lift including cost of all labour including consolidation by mechanical means approved by Engineer inclarge, when earth is at suitable moisture content with desired field density upto 95% maximum dry density (modified heavy proctor test) for restoration of roads without settlement including HOM of machineries complete. (The contractor shall take care while consolidating the earth, so that pipes laid are not damaged due to mechanical compaction and shall restore the damaged pipes at his own cost, incase of damage).Approved earth available nearby, lead upto 100M and lift upto 1.5M. Note In exceptional cases, earh may be obtained from barrow pit with extra lead ,duly obtaing approval from the Chief Engineer				
	Name of work	cum			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		1870.84		
	Previous Qty		0.00		
	Total Qty		1870.84		
	BOQ Qty		1870.84		
	Qty for payment		1870.84	94.00	175858.96

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Bruhat Bengalo... ...ara Palike
Bangalore ...2

9	Provide bedding using approved stone dust / quarry dust of size notexceeding 5.6 mm for the pipe lines trenches including watering andconsolidation to95% proctor density etc. complete with all lead andlifts as per specifications and as directed by the Engineer in chargeetc and afterobtaining the approval of the Chief Engineer				
	Name of work	cum			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		3.60		
	Previous Qty		0.00		
	Total Qty		3.60		
	BOQ Qty		3.60		
	Qty for payment		3.60	871.00	3135.60
10	Disposal off the excess excavated earth of all types by vehicle inculding loading ,unloading with all lead lifts,labour,HOM of machineries etc.for Distance upto 4 to 5 KM				
	Name of work	cum			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty		418.17		
	Previous Qty		0.00		
	Total Qty		418.17		
	BOQ Qty		418.17		
	Qty for payment		418.17	177.00	74016.09

15540.00

175858.96

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

11	Wet mix macadam KSRRB M-400-17 Providing,laying spreading and compacting graded stones aggregates to wet mix macadam spections including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site ,laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory complete as per specification				
	Name of work	cum			
	Providing and laying UGD line in ward No.07 Byatarayanapura,				
	Present Qty	107.72	112.74		
	Previous Qty	0.00	0.00		
	Total Qty	107.72	112.74		
	BOQ Qty		112.74		164380.72
	Qty for payment	107.72	112.74	1526.00	172041.24
			TOTAL		2708992.63

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Executive Engineer
Byatarayanapura Division